

CLAIMS

We claim:

1 1. A method of content blocking in a digital audio radio, comprising the steps of:
2 selectively choosing to skip undesired content on at least a portion of
3 a channel;
4 communicating an indicia of the undesired content to a central station;
5 and
6 receiving a signal over-the-air from the central station that disables the
7 undesired content in the digital audio radio.

1 2. The method of claim 1, wherein the method further comprises the step of
2 blocking the output of the content by disabling the portion of the channel.

1 3. The method of claim 1, wherein the method further comprises the step of
2 blocking the output of the content by disabling at least the channel completely.

1 4. The method of claim 1, wherein the steps of selectively choosing and
2 communicating the indicia of the undesired content to the central station is
3 achieved via a computer network.

1 5. The method of claim 4, wherein the step of selectively choosing and
2 communicating the indicia comprises selecting a profile for a particular user on a
3 website coupled to the central station.

1 6. The method of claim 1, wherein the step of selectively choosing is achieved via
2 a user interface in the digital audio radio and the step of communicating the

3 undesired content to the central station is achieved via a reverse channel to the
4 central station.

1 7. The method of claim 4, wherein the indicia communicated to the central station
2 is selected from the group comprising a location, a song title, an artist's name, a
3 band name, a channel number, an album, a rating, a tier level, or an identification
4 number associated with the digital audio radio.

1 8. The method of claim 2, wherein the step of selectively choosing comprises the
2 step of storing a code representative of the undesired content in a memory of the
3 digital audio radio and wherein the step of blocking comprises the step of
4 comparing the code with a second code embedded in the signal from the central
5 station.

1 9. The method of claim 8, wherein the code stored in the memory is
2 representative of a location and wherein the code representative of the location is
3 updated via a GPS receiver or other location determination means utilizing time
4 delays.

1 10. A method of disabling at least a portion of one of a plurality of channels in a
2 digital audio radio system, comprising the steps of:
3 receiving a digitally encoded bit stream over-the-air on the plurality of
4 channels;
5 decoding a selected channel among the plurality of channels;
6 selectively tagging an undesired type of content on the selected
7 channel;

analyzing a broadcast information channel and/or an Electronic Program Guide for an indication of content of the undesired type among the plurality of channels; and

selectively disabling at least the portion of the selected channel containing the undesired type of content.

11. The method of claim 10, wherein the step of selectively disabling further comprises the step of selectively disabling all channels among the plurality of channels containing the indication of content of the undesired type.

12. The method of claim 10, wherein the step of tagging further comprises the step of storing descriptors representative of the content on the selected channel in a memory.

13. The method of claim 12, wherein the step of analyzing further comprises the step of comparing descriptors of content for at least a portion of the plurality of channels in the broadcast information channel with the descriptor stored in the memory.

14. The method of claim 10, wherein the indication of undesired content comprises descriptors selected from the group comprising song title, artist, composer, lyricist, label, album name, genre, sub-genre, length, lyric keywords, audience level rating, service tier level, location, or any combination thereof.

15. The method of claim 10, wherein the step of selectively tagging comprises the step of storing a descriptor such as a undesired artist or song from a channel reference table and/or an Electronic Program Guide in a memory or other storage media within a satellite digital audio radio receiver unit and the step of analyzing

5 further comprises comparing the descriptor with descriptors in a broadcast
6 information channel for an indication of content of the undesired type among the
7 plurality of channels, wherein the broadcast information channel is updated
8 frequently to provide the user with up-to-date information about the plurality of
9 channels.

1 16. The method of claim 10, wherein the method further comprises the step of
2 selecting the undesired content by a single user input.

1 17. The method of claim 10, wherein the step of disabling comprises the step of
2 disabling a time division channel among a plurality of time division channels
3 received at a digital audio radio.

1 18. A digital audio radio capable of disabling at least a portion of a channel among
2 a plurality of channels containing undesired content, comprises:

3 a receiver for receiving a digitally encoded bit stream over-the-air

4 having a plurality of channels, wherein at least a portion of the plurality of channels
5 contains content and associated channel information;

6 a decoder for selectively decoding at least a portion of the plurality of
7 channels and the associated channel information;

8 an input enabling the selective storage of descriptors associated with
9 undesired content on at least one of the plurality of channels into a memory; and

10 a processor programmed to compare the selectively stored descriptors
11 with the associated channel information and further programmed to disable at least
12 the portion of the channel containing undesired content when at least a portion of
13 the selectively stored descriptors matches the associated channel information.

1 19. The digital audio radio of claim 18, wherein the associated channel information
2 is broadcast on a separate broadcast information channel that is transmitted and
3 updated frequently to provide the user with up-to-date information about the
4 plurality of channels.

1 20. The digital audio radio of claim 18, wherein the selectively stored descriptors
2 comprises location information that is either received or calculated at the digital
3 audio radio.

1 21. The digital audio radio of claim 18, wherein the processor is further
2 programmed to re-enable at least the portion of the channel that has been disabled
3 when at least a portion of the selectively stored descriptors no longer matches the
4 associated channel information.

1 22. A digital audio radio capable of disabling at least a portion of a channel among
2 a plurality of channels containing undesired content, comprises:

3 a receiver for receiving the plurality of channels via a digitally encoded
4 bit stream over-the-air, wherein at least a portion of the plurality of channels
5 contains content and associated channel information;

6 a user interface coupled to the receiver and enabling a user to
7 selectively choose at least the portion of the channel containing the undesired
8 channel; and

9 a processor programmed to disable at least the portion of the channel
10 in response to a user input via the user interface.

1 23. The digital audio radio of claim 22, wherein the digital audio radio further
2 comprises a transmitter for communicating an indicia of the undesired content to a
3 central station.

1 24. The digital audio radio of claim 22, wherein the processor is further
2 programmed to disable the undesired content in the digital audio radio after
3 receiving a signal over-the-air from a central station to the digital audio receiver.

1 25. The digital audio radio of claim 24, wherein the content disabled on at least a
2 portion of a channel is selected from the group of content comprising audio,
3 images, text or data.

1 26. A digital audio radio capable of disabling at least a portion of a channel among
2 a plurality of channels containing undesired content, comprises:

3 a receiver for receiving the plurality of channels via a digitally encoded
4 bit stream over-the-air, wherein at least a portion of the plurality of channels
5 contains content and associated channel information;

6 means for selectively choosing to skip undesired content on at least a
7 portion of a channel; and

8 a processor programmed to communicate an indicia of the undesired
9 content to a central station and to disable at least the portion of the channel in
10 response to receipt of a signal over-the-air from the central station that disables the
11 undesired content in the digital audio radio.

1 27. A method of content blocking in a digital audio radio receiving content and
2 associated content code on a plurality of channels, comprising the steps of:

3 storing in a first memory of the digital audio radio the associated
4 content codes;

5 storing in a second memory of the digital audio radio defined content
6 codes associated with undesired content on at least a portion of a channel;

7 comparing the associated content code with the defined content
8 codes; and
9 processing the content based on the comparison.

1 28. The method of claim 27, wherein the processing step further comprises the
2 step of disabling at least the portion of the channel containing the undesired
3 content.

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 10